



# E Shakti Binary Currents Private Limited

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Fatty Acids | Tri-Glycerides | Esters

## Soybean Refining 2.0:

Tocopherol, Phytosterol and concentrated fatty acids  
from Soya by-products

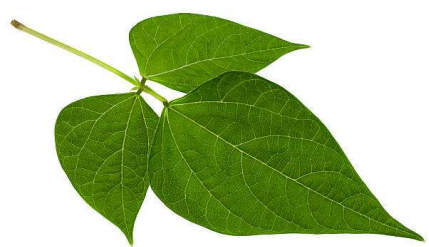
**Presented By:**

Mr. Nachiket Muley

Managing Director

E-Shakti Binary Currents Pvt. Ltd.

Aurangabad, Maharashtra



## About Us



### Value Addition:

Established in 2015, **E-Shakti Binary Currents** is an EPCC company with a vision to bring value addition to edible oil industry using novel engineering approach.

### Speciality Products:

We offer EPCC solutions to edible oil manufacturers to manufacture speciality products from their existing raw material and factory setup.

### Additional Revenue:

Upgraded oil refinery generates additional revenue, making edible oil business sustainable & profitable venture in the long run.



**E Shakti Binary Currents Private Limited**

## About Us



Existing  
Oil Refinery



**E-Shakti  
Value Addition  
Process**



Additional  
Revenue



**E-Shakti  
EPC Technological  
Solutions**



**Technology  
Upgrade in existing  
Oil Refinery**



Additional  
New Speciality  
Products

### **Turnkey Solutions:**

We offer complete turnkey project solutions to our clients from start to finish which helps to complete the assigned project in record time.

### **Quality Assurance:**

All equipment and machineries required for the project is designed by our technical team and technology partners which gives 100% quality assurance to our clients.

### **Market Support:**

Post project completion we provide after sales support for domestic and international market to realise maximum product value.

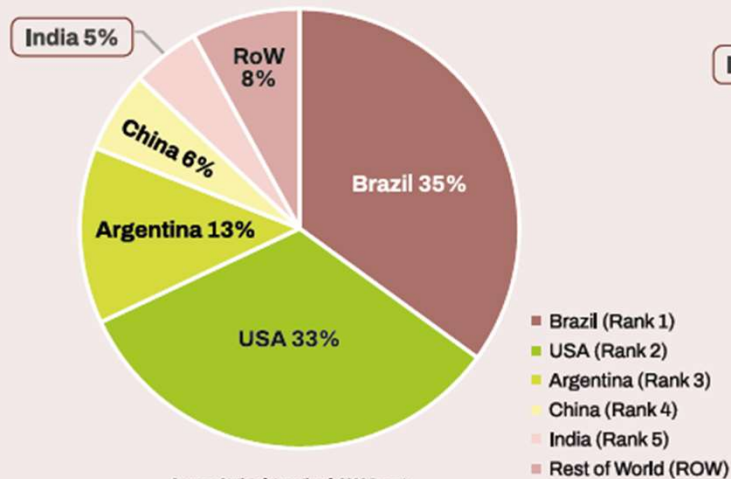


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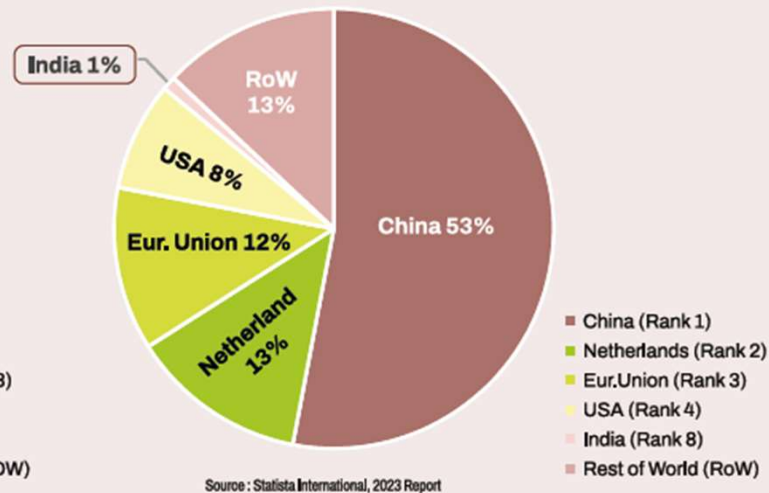
## Global Soybean Processing Scenario



### Global Soybean Production, 2023



### Top exporters of Tocopherol, 2023



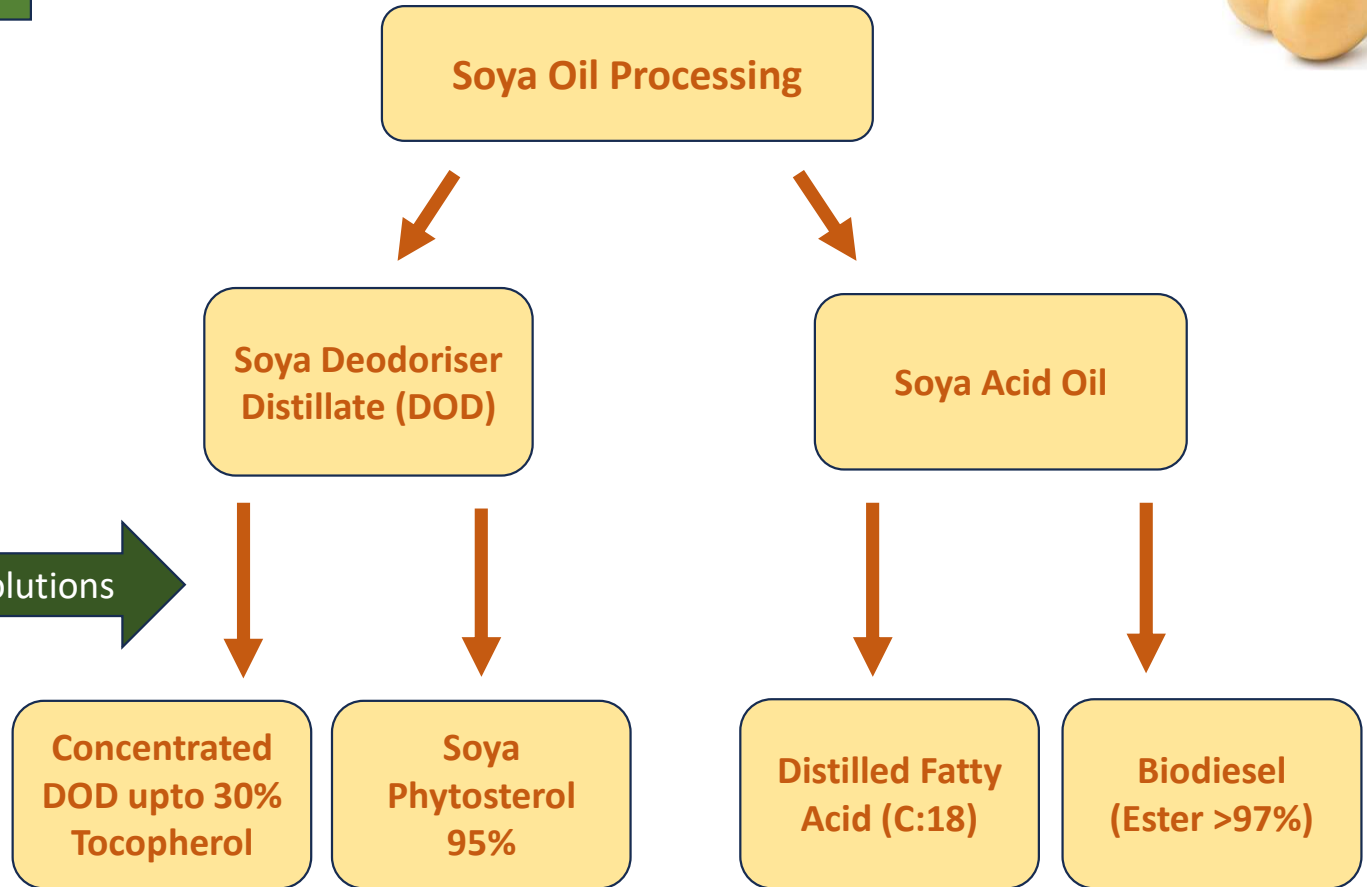
India is 5th largest producer of Soybean in the world where as China is 4th largest. However, China is the largest processor and exporter of Tocopherol globally with 53% market share. On the other hand, India has mere 1% Tocopherol market share. This data highlights that India has huge potential in soyabean DOD processing and edible oil manufacturers should tap this opportunity by upgrading their oil refineries for Tocopherol processing.



# Soybean Processing 2.0



EPCC Solutions



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## Speciality Products

### Concentrated Soya DOD



- Soybean Deodorised Distillate is the by-product of soybean oil processing. Typical tocopherol concentration ranges between 5-8%.
- With implementation of our technology upgradation process the tocopherol concentration is increased upto 30% in existing factory setup.
- As value of deodoriser distillate depends upon its tocopherol percentage, you get higher value product in the form of concentrated DOD.

#### Application

Concentrated DOD is raw material for Tocopherol manufacturers and has great global demand.

#### Market Scenario

Concentrated DOD sells in similar way like normal DOD but at higher price due to increased tocopherol content. It usually sells 3 to 4 times higher price range than regular DOD.



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## Speciality Products

### Soya Phytosterol 95%



- Phytosterol is valuable product derived by processing deodoriser distillate.
- Our technological solutions deliver Phytosterol 95% purity product.
- Phytosterol is nutraceutical, food & pharmaceutical ingredient known for its anti-cholesterol properties.

#### Applications

**Nutraceutical:** It is used in dietary supplements in form of capsules and tablets for cholesterol management

**Food:** It is used as functional food ingredient in dairy products like cheese & butter.

**Pharma:** It is used in production of steroid hormones and pharma ingredient beta-sitosterol.

#### Market Scenario

Phytosterol has regular consistent demand in both domestic and international market. It has potential to fetch good price depending upon its individual components' composition.



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## Speciality Products

### Distilled Fatty Acid C:18



- Distilled Fatty Acid (C:18) is valuable product derived by processing Soya acid oil.
- We deliver DFA with high Acid value (>195+) & high iodine value (>128+).
- DFA is a versatile product with numerous applications in cosmetic, paint, coatings, resins and other industries.

#### Applications

**Personal Care:** It is used in various cosmetic products like soaps, conditioners, gels, creams, etc.

**Paint & Coatings:** It is used in manufacturing of paints & coatings.

**Rubber & Lubricants:** It is widely used in rubber, plastic and various lubricants manufacturing.

#### Market Scenario

Distilled Fatty Acid is one of the most sought after product due to its versatile applications. It has consistent demand in both domestic and international market.



## Speciality Products

### Biodiesel: Ester Content > 99%



- Biodiesel is valuable product derived by processing Soya acid oil.
- We deliver B100 grade Biodiesel with high ester content (>99%).
- Our EPCC solutions can convert all types of waste oil into Biodiesel.
- Post pretreatment and distillation the product complies to IS 15607 – 2022 standards and can be directly sold to various Oil Manufacturing Companies (OMC's).

### Applications

Biodiesel can be directly used as alternative fuel to petroleum diesel and as such has wide & varied applications.

### Market Scenario

Central Government has taken initiative for 5% Biodiesel blending by the Year 2030. As of now only 0.5% biodiesel blending target has been achieved. Hence there will be huge surge in demand for Biodiesel in coming years.



## Market Scenario of Soya DOD Processing



### Scope for New Players

In India, currently there are **only 4-5 companies** which are engaged in Soybean DOD concentration business. Interestingly, none of them has their own edible oil refinery. Hence it is great opportunity for edible oil refineries to diversify their business portfolio with **Forward Integration** by integrating soybean DOD concentration business.

### Great Business Potential

Soybean DOD Concentration is a whole-time business in itself. Companies which have potential to **Produce, Procure and Store** soybean DOD in huge stocks will greatly prosper in this business.

### Edible Oil Refiners Advantage

Edible oil refineries are in better position to determine their own soybean DOD quality and procure additional similar quality Soy DOD and store it. Due to this they will process only high quality DOD which will further reduce the processing cost and increase the overall **profitability** of the business.



## Market Scenario of Soya DOD Processing



### Strong Procurement Network

Edible oil refineries already have a well-established strong procurement network through which can easily use this network to procure additional Soybean DOD.

### Single Facility for both Biodiesel & DFA

Till now edible oil refineries use to diversify their business by setting up separate Biodiesel or Distilled Fatty Acid plants. However now we are providing this unique opportunity wherein edible oil manufacturers can produce both **Biodiesel and DFA** in one single facility and benefit from both products.

### Future Readiness

Soybean DOD processing is the future of edible oil industry. Only those edible oil refineries which has implemented Soy DOD processing facility will **command the market**. They will safeguard themselves from their small edible oil margins, price fluctuations by generating additional healthy revenue from soy DOD processing. They will always be in a better position than other oil edible refineries who do have this soy DOD processing facility.





**E Shakti Binary Currents Private Limited**



## **Every Drop Counts !**

Contact us to unleash the true potential of your Edible Oil Refinery

### **Registered Office Address**

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